CLAIMS:

- A method to assign tasks, comprising:
 receiving a request to execute a task on one of a plurality of processors;
 determining a task type for said task;
 retrieving a processor task value of said task type for each processor;
 selecting a processor based on said processor task values; and
 assigning said task to said selected processor.
- 2. The method of claim 1, wherein said processor task value represents a number of other task types affected by assigning said task to a processor.
- 3. The method of claim 1, further comprising updating said processor task values for each task type and each processor.
- 4. The method of claim 3, wherein said updating comprises:

 retrieving a first resource cost value for a first task type;

 retrieving a second resource cost value for a second task type;

 generating a modulo of said first resource cost value divided by said second

 resource cost value to form a first relative resource value for said first task type relative to said second task type;

determining a remaining resource value for said processor;

generating a modulo of said remaining resource value divided by said second resource cost value to form a second spare resource value for said second task type;

comparing said first relative resource value to said second spare resource value; and

updating said processor task value for said first task type in accordance with said comparison.

- 5. The method of claim 4, wherein said processor task value for said first task type is incremented by one if said first relative resource value is less than said second spare resource value.
- 6. The method of claim 3, wherein said updating comprises:

 retrieving a first resource cost value for a first task type;

 retrieving a second resource cost value for a second task type;

generating a modulo of said second resource cost value divided by said first resource cost value to form a second relative resource value for said second task type relative to said first task type;

determining a remaining resource value for said processor;

generating a modulo of said remaining resource value divided by said first resource cost value to form a first spare resource value for said first task type;

comparing said second relative resource value to said first spare resource value; and

updating said processor task value for said second task type in accordance with said comparison.

- 7. The method of claim 6, wherein said processor task value for said second task type is incremented by one if said second relative resource value is less than said first spare resource value.
- 8. The method of claim 3, wherein said updating comprises: retrieving a first resource cost value for a first task type;

retrieving a second resource cost value for a second task type;

generating a modulo of said first resource cost value divided by said second resource cost value to form a first relative resource value for said first task type relative to said second task type;

generating a modulo of said second resource cost value divided by said first resource cost value to form a second relative resource value for said second task type relative to said first task type;

determining a remaining resource value for said processor;

generating a modulo of said remaining resource value divided by said first resource cost value to form a first spare resource value for said first task type;

generating a modulo of said remaining resource value divided by said second resource cost value to form a second spare resource value for said second task type;

incrementing said processor task value for said first task type if said first relative resource value is greater than said second spare resource value; and

incrementing said processor task value for said second task type if said second relative resource value is greater than said first spare resource value.

- 9. The method of claim 1, wherein said selecting comprises: comparing said processor task values for said processors; and selecting a processor having a highest processor task value.
- 10. A system, comprising:
 - a call terminal to originate information;
- a first antenna to couple to said call terminal to send said information over a communications channel;
- a second antenna to receive said information over said communications channel;
 a gateway to couple to said second antenna and process said information using a
 processing module, said processing module further comprising a task scheduler and array
 of processors.
- 11. The system of claim 10, wherein said task scheduler receives a request to execute a task by one of said array of processors, and assigns said task to a processor based on a processor task value.
- 12. The system of claim 11, wherein said processor task value represents a number of other task types affected by assigning said task to said processor.

13. An apparatus, comprising:

an array of processors; and

a task scheduler to couple to said array of processors, said task scheduler to receive a first input signal to indicate a request to assign a task to a processor for execution, said task scheduler to select a processor from said array of processors using a processor task value for each processor in said array of processors, and generate a first output signal to assign said task to said selected processor.

- 14. The apparatus of claim 13, wherein said array of processors comprises an array of digital signal processors.
- 15. The apparatus of claim 13, wherein said processor task value represents a number of other task types affected by assigning said task to said processor.
- 16. An article, comprising:

a storage medium;

said storage medium including stored instructions that, when executed by a processor, result in assigning tasks by receiving a request to execute a task on one of a plurality of processors, determining a task type for said task, retrieving a processor task value of said task type for each processor, selecting a processor based on said processor task values, and assigning said task to said selected processor.

- 17. The article of claim 16, wherein the stored instructions, when executed by a processor, further result in updating said processor task values for each task type and each processor.
- 18. The article of claim 17, wherein the stored instructions, when executed by a processor, further result in said updating by retrieving a first resource cost value for a first task type, retrieving a second resource cost value for a second task type, generating a modulo of said first resource cost value divided by said second resource cost value to form a first relative resource value for said first task type relative to said second task type, determining a remaining resource value for said processor, generating a modulo of said remaining resource value divided by said second resource cost value to form a second spare resource value for said second task type, comparing said first relative resource value to said second spare resource value, and updating said processor task value for said first task type in accordance with said comparison.
- 19. The article of claim 17, wherein the stored instructions, when executed by a processor, further result in said updating by retrieving a first resource cost value for a first task type, retrieving a second resource cost value for a second task type, generating a modulo of said second resource cost value divided by said first resource cost value to form a second relative resource value for said second task type relative to said first task type, determining a remaining resource value for said processor, generating a modulo of said remaining resource value divided by said first resource cost value to form a first spare resource value for said first task type, comparing said second relative resource

value to said first spare resource value, and updating said processor task value for said second task type in accordance with said comparison.

- 20. The article of claim 17, wherein the stored instructions, when executed by a processor, further result in said updating by retrieving a first resource cost value for a first task type, retrieving a second resource cost value for a second task type, generating a modulo of said first resource cost value divided by said second resource cost value to form a first relative resource value for said first task type relative to said second task type, generating a modulo of said second resource cost value divided by said first resource cost value to form a second relative resource value for said second task type relative to said first task type, determining a remaining resource value for said processor, generating a modulo of said remaining resource value divided by said first resource cost value to form a first spare resource value for said first task type, generating a modulo of said remaining resource value divided by said second resource cost value to form a second spare resource value for said second task type, incrementing said processor task value for said first task type if said first relative resource value is greater than said second spare resource value, and incrementing said processor task value for said second task type if said second relative resource value is greater than said first spare resource value.
- 21. The article of claim 17, wherein the stored instructions, when executed by a processor, further result in said selecting by comparing said processor task values for said processors, and selecting a processor having a highest processor task value.